$mx + ny = 2$;

A1 wherein m and n are coefficients equal to oxidation numbers of the anion A and B, respectively,

the anion A is selected from the group consisting of Cl^-, Br^-, I^-, F^-, NO_3^- SO_4^{2-}, PO_4^{3-}, OH, $RCOO^-$, a C_1-C_{20} straight chain hydrocarbon, a C_1-C_{20} branched hydrocarbon, an aromatic group, $tartrate^{2-}$, $citrate^{3-}$ and an amino acid residue;

the colloidal cupric compound made by a process comprising the steps of:

purifying a Cu^{2+} solution by adding an oxidizing agent and H_3PO_4 to the solution; and

raising the pH of the solution.

A2 3. (Amended) The colloidal cupric compound of claim 1, wherein said purifying step further includes the steps of:

adjusting the pH to 3;

heating the solution; and

removing the solids.

4. (Amended) The colloidal cupric compound of claim 1, wherein the oxidizing agent is selected from the group consisting of H_2O_2 and bleach.

A3 6. (Amended) The colloidal cupric compound of claim 1, wherein the process further comprises:

adding an organic solvent to the solution to form a precipitate; and

collecting the precipitate.

7. (Amended) The colloidal cupric compound of claim 6, wherein the organic solvent is selected from the group consisting of methanol and acetone.

A4 9. (Amended) A process for producing a colloidal cupric compound of formula (I):

CuAxBy (I)

wherein A and B are anions,

$0 \leq x \leq 2$,

$0 \leq y \leq 2$, and

A 4

$$mx + ny = 2,$$

wherein m and n are coefficients equal to oxidation numbers of the anion A and B, respectively,

the anion A is selected from the group consisting of Cl^-, Br^-, I^-, F^-, NO_3^- SO_4^{2-}, PO_4^{3-}, $RCOO^-$ a C_1-C_{20} straight chain, a C_1-C_{20} branched hydrocarbon, an aromatic group, tartrate^{2-}, citrate^{3-} and an amino acid residue;

wherein R is selected from the group consisting of hydrogen and an aromatic group;

the process comprising:

purifying a Cu^{2+} solution by adding an oxidizing agent and H_3PO_4 to the solution; and

raising the pH of the solution.

A 5

11. (Amended) The process of claim 9, wherein said purifying step further includes the steps of:

adjusting the pH to 3;

heating the solution; and

removing the solids.

12. (Amended) The process of claim 9, wherein the oxidizing agent is selected from the group consisting of H_2O_2 and bleach.

A 6

14. (Amended) The process claim 9, wherein the process further comprises:

adding an organic solvent to the solution to form a precipitate; and

collecting the precipitate.

15. (Amended) The process of claim 14, wherein the organic solvent is selected from the group consisting of methanol and acetone.